Deaths &

Property &

Event Type and Details

Date/Time

Location

	Injuries Crop Dmg		
LLINOIS, South			
EFFERSON COUNTY 1.0 E SCHELLER [38.18, -89.08]			
04/10/13 15:16 CST	0	Funnel Cloud	
04/10/13 15:16 CST	0	Source: Trained Spotter	
The funnel cloud was reported by a trained spotter who observed it from eastern Pe	erry County.		
IEFFERSON COUNTY DIX [38.43, -88.93]			
04/10/13 15:29 CST	5K	Hail (1.00 in)	
04/10/13 15:29 CST	0	Source: Trained Spotter	
There was minor damage to vinyl siding and screens on the south side of a house.			
JEFFERSON COUNTY 0.5 W WOODLAWN [38.33, -89.04]			
04/10/13 15:45 CST	0	Hail (1.50 in)	
04/10/13 15:45 CST	0	Source: Public	
Ping pong ball size hail was reported.			
JEFFERSON COUNTY 2.0 E BOYD [38.42, -88.98], DIX [38.43, -88.93]			
04/10/13 15:45 CST	10K	Hail (1.75 in)	
04/10/13 15:59 CST	0	Source: Trained Spotter	
A second round of large hail associated with another supercell lasted approximately		ng more damage to vinyl siding and	
screens. The large hail swath extended from several miles southwest of Dix across	the Dix area.		
JEFFERSON COUNTY 2.0 SW BOYD [38.40, -89.05]			
04/10/13 15:56 CST	0	Funnel Cloud	
04/10/13 15:56 CST	0	Source: Trained Spotter	
A strongly rotating funnel cloud was observed over open country.			
JEFFERSON COUNTY 1.0 E DIX [38.43, -88.91]			
04/10/13 16:05 CST	0	Funnel Cloud	
04/10/13 16:05 CST	0	Source: Trained Spotter	
A rotating wall cloud with a funnel cloud was observed crossing the road between D	ix and Texico.		

Surface heating during the day destabilized the atmosphere, contributing to moderate instability in the warm sector of a surface cyclone. Thunderstorms developed as the cap weakened. Increasing vertical wind shear, moderate instability, and boundary layer dew points in the mid 60's resulted in a couple of supercells with funnel clouds and large hail. The two supercells moved northeast across the western and northern parts of Jefferson County.

> Page 1 of 10 06/07/2013 Printed on:

Location Date/Time Deaths & Property & Event Type and Details Injuries Crop Dmg



Photo of hailstone just under two inches in diameter. The photo was taken two miles west of Dix by the emergency management director for Jefferson County, Benton Fitzjerrells.

EDWARDS COUNTY	3.0 N BONE	GAP [38.49	9, -88.001

04/16/13 19:58 CST 0 Hail (1.75 in)

04/16/13 19:58 CST 0 Source: Trained Spotter

Golf-ball size hail was reported by a trained spotter.

Scattered thunderstorms developed along and ahead of a cold front approaching the Ohio River. The activity was fostered by upper-level diffluence overlying a relatively warm moist boundary layer in the presence of 35 to 40 knots of west-southwesterly 700 mb flow.

(IL-Z084) JACKSON, (IL-Z088) UN	IION, (IL-Z092) ALEXANDER			
	04/18/13 04:00 CST	3K	Strong Wind (MAX 42 kt)	
	04/18/13 10:00 CST	0		
JACKSON COUNTY SAND RIE	DGE [37.73, -89.43]			
	04/18/13 12:42 CST	0	Funnel Cloud	
	04/18/13 12:42 CST	0	Source: Trained Spotter	

A trained spotter reported a rain-wrapped funnel cloud.

Within the steadily destabilizing warm sector of a surface low, a quasi-linear band of thunderstorms proceeded eastward across southern Illinois in the afternoon. A few supercells developed in the presence of favorable deep-layer wind shear. At least one of these supercells produced a funnel cloud. Strong southerly winds occurred during the morning hours in the Mississippi River counties. A gust to 48 mph was measured at the Carbondale airport.

ALEXANDER COUNTY --- 2.3 ESE CAIRO [36.99, -89.14], 2.1 ESE CAIRO [36.98, -89.15], 1.1 ESE CAIRO [37.00, -89.16], 1.2 E CAIRO [37.00, -89.16]

 04/19/13 14:00 CST
 2K
 Flood (due to Heavy Rain)

 04/30/13 23:59 CST
 0
 Source: River/Stream Gage

Moderate flooding occurred along the Ohio River near Cairo, affecting low-lying fields, woods, and riverside parks. Boat ramps and river access roads were flooded. The river continued rising into early May.

Page 2 of 10 Printed on: 06/07/2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
ALEXANDER COUNTY THEBES [37 89.46]	7.22, -89.47], 0.6 WSW THEBES JCT [3	7.20, -89.46], 0.3 V	SW THEBES JCT	[37.20, -89.45], 0.6 SE THEBES [37.21,
55.461	04/19/13 15:00 CST		2K	Flood (due to Heavy Rain)
	04/30/13 23:59 CST		0	Source: River/Stream Gage
floderate flooding occurred along the Noads were flooded. The river continued	Mississippi River near Thebes, affecting d rising into early May.	low-lying fields, wo	oods, and riverside	parks. Boat ramps and river access
	[38.45, -87.75], 2.3 SSE PATTON [38.45	, -87.74], 1.4 E MT	CARMEL [38.42,	-87.74], 1.0 ENE MT CARMEL [38.43,
87.75], 0.5 ESE ROCHESTER [38.35,	-87.82], KEENSBURG [38.35, -87.87] 04/20/13 00:00 CST		20K	Flood (due to Heavy Rain)
	04/30/13 23:59 CST		0	Source: River/Stream Gage
ack to the late 1800's. Extensive flood armel, all local roads were flooded ea	Nabash River around Mt. Carmel. The c ding occurred on the northern outskirts o ast of the levee except for one. Old Illinoi area were forced to relocate. Over 100	f Mount Carmel. N s 1 north of Mt. Ca	umerous local rive	r roads were flooded. In the City of Mt. d. Some residents along a street in the
WAYNE COUNTY WAYNE CITY 129	3.35, -88.58], 2.6 NNE MAYBERRY [38.3	1 99 5/1 2 5 9 9	MC [20 22 00 E2]	4.0 E WAYNE CITY (29.25. 99.52)
TATRE COUNTY WATNE CITT [30	04/20/13 03:00 CST	1, -00.04], 3.0 3 3	ws [36.32, -66.53] 0	Flood (due to Heavy Rain)
	04/21/13 05:00 CST		0	Source: River/Stream Gage
				·
linor flooding occurred along the Skille	et Fork River near Wayne City. Low-lyin	g fields and woodla	ands were inundate	ed.
				201 0 2 505 1 51/11/00 107 04 00 001
PULASKI COUNTY OLMSTED [37.1	18, -89.08], 0.8 ESE OLMSTED [37.17, -	39.07], 2.7 ESE LE	VINGS [37.20, -89.	.03], 2.0 ESE LEVINGS [37.21, -89.03]
PULASKI COUNTY OLMSTED [37.1	18, -89.08], 0.8 ESE OLMSTED [37.17, -1 04/20/13 15:00 CST	39.07], 2.7 ESE LE	VINGS [37.20, -89 2K	Flood (due to Heavy Rain)
<i>I</i> linor flooding occurred along the Ohio			2K 0	Flood (due to Heavy Rain) Source: River/Stream Gage
Minor flooding occurred along the Ohio early May.	04/20/13 15:00 CST 04/30/13 23:59 CST Priver near Grand Chain, affecting low-less [38.05], 1.8 E MAUNIE [38.03, -88.02], 0.8 04/21/13 14:00 CST	ying fields, woods,	2K 0 and river access r I [38.01, -88.03], 0	Flood (due to Heavy Rain) Source: River/Stream Gage roads. The river continued rising into 5.5 NNW RISING SUN [38.01, -88.03] Flood (due to Heavy Rain)
linor flooding occurred along the Ohio arly May.	04/20/13 15:00 CST 04/30/13 23:59 CST River near Grand Chain, affecting low-l 8.05], 1.8 E MAUNIE [38.03, -88.02], 0.8	ying fields, woods,	2K 0 and river access r	Flood (due to Heavy Rain) Source: River/Stream Gage roads. The river continued rising into
Minor flooding occurred along the Ohio early May. WHITE COUNTY MAUNIE [38.03, -8 Moderate flooding occurred along the V	04/20/13 15:00 CST 04/30/13 23:59 CST Priver near Grand Chain, affecting low-less [38.05], 1.8 E MAUNIE [38.03, -88.02], 0.8 04/21/13 14:00 CST	ying fields, woods,	2K 0 and river access r 1 [38.01, -88.03], 0 0	Flood (due to Heavy Rain) Source: River/Stream Gage roads. The river continued rising into 5.5 NNW RISING SUN [38.01, -88.03] Flood (due to Heavy Rain) Source: River/Stream Gage
Minor flooding occurred along the Ohio early May. WHITE COUNTY MAUNIE [38.03, -8 Moderate flooding occurred along the Volto early May.	04/20/13 15:00 CST 04/30/13 23:59 CST Priver near Grand Chain, affecting low-less (198.05), 1.8 E MAUNIE [38.03, -88.02], 0.8 04/21/13 14:00 CST 04/30/13 23:59 CST	ying fields, woods, NNE RISING SUN	2K 0 and river access r I [38.01, -88.03], 0 0 0 oodlands occurred.	Flood (due to Heavy Rain) Source: River/Stream Gage roads. The river continued rising into 5 NNW RISING SUN [38.01, -88.03] Flood (due to Heavy Rain) Source: River/Stream Gage The river continued above flood stage
Alinor flooding occurred along the Ohio early May. WHITE COUNTY MAUNIE [38.03, -8) Moderate flooding occurred along the Volto early May.	04/20/13 15:00 CST 04/30/13 23:59 CST Priver near Grand Chain, affecting low-letter 18.05], 1.8 E MAUNIE [38.03, -88.02], 0.8 04/21/13 14:00 CST 04/30/13 23:59 CST Wabash River. Extensive flooding of low	ying fields, woods, NNE RISING SUN	2K 0 and river access r I [38.01, -88.03], 0 0 0 podlands occurred.	Flood (due to Heavy Rain) Source: River/Stream Gage roads. The river continued rising into 5 NNW RISING SUN [38.01, -88.03] Flood (due to Heavy Rain) Source: River/Stream Gage The river continued above flood stage ARBON [37.76, -89.36], 2.2 WNW MT
Alinor flooding occurred along the Ohio early May. WHITE COUNTY MAUNIE [38.03, -8) Moderate flooding occurred along the Volto early May.	04/20/13 15:00 CST 04/30/13 23:59 CST River near Grand Chain, affecting low-less. 98.05], 1.8 E MAUNIE [38.03, -88.02], 0.8 04/21/13 14:00 CST 04/30/13 23:59 CST Wabash River. Extensive flooding of low CARBON [37.76, -89.38], 1.4 W MT CAR 04/21/13 19:00 CST	ying fields, woods, NNE RISING SUN	2K 0 and river access r I [38.01, -88.03], 0 0 0 codlands occurred.	Flood (due to Heavy Rain) Source: River/Stream Gage roads. The river continued rising into 5 NNW RISING SUN [38.01, -88.03] Flood (due to Heavy Rain) Source: River/Stream Gage The river continued above flood stage ARBON [37.76, -89.36], 2.2 WNW MT Flood (due to Heavy Rain)
Alinor flooding occurred along the Ohio early May. WHITE COUNTY MAUNIE [38.03, -8) Moderate flooding occurred along the Volto early May.	04/20/13 15:00 CST 04/30/13 23:59 CST Priver near Grand Chain, affecting low-letter 18.05], 1.8 E MAUNIE [38.03, -88.02], 0.8 04/21/13 14:00 CST 04/30/13 23:59 CST Wabash River. Extensive flooding of low	ying fields, woods, NNE RISING SUN	2K 0 and river access r I [38.01, -88.03], 0 0 0 podlands occurred.	Flood (due to Heavy Rain) Source: River/Stream Gage roads. The river continued rising into 5 NNW RISING SUN [38.01, -88.03] Flood (due to Heavy Rain) Source: River/Stream Gage The river continued above flood stage ARBON [37.76, -89.36], 2.2 WNW MT
Winor flooding occurred along the Ohio early May. WHITE COUNTY MAUNIE [38.03, -8 Woderate flooding occurred along the Volume of the May. JACKSON COUNTY 2.6 WNW MT COUNTY 2.6 WNW M	04/20/13 15:00 CST 04/30/13 23:59 CST River near Grand Chain, affecting low-less. 98.05], 1.8 E MAUNIE [38.03, -88.02], 0.8 04/21/13 14:00 CST 04/30/13 23:59 CST Wabash River. Extensive flooding of low CARBON [37.76, -89.38], 1.4 W MT CAR 04/21/13 19:00 CST	ying fields, woods, NNE RISING SUN lying fields and wo	2K 0 and river access r I [38.01, -88.03], 0 0 0 codlands occurred.	Flood (due to Heavy Rain) Source: River/Stream Gage roads. The river continued rising into 5.5 NNW RISING SUN [38.01, -88.03] Flood (due to Heavy Rain) Source: River/Stream Gage The river continued above flood stage ARBON [37.76, -89.36], 2.2 WNW MT Flood (due to Heavy Rain) Source: River/Stream Gage
Minor flooding occurred along the Ohio early May. WHITE COUNTY MAUNIE [38.03, -8 Moderate flooding occurred along the Vinto early May. MACKSON COUNTY 2.6 WNW MT COUNTY 2.6 WNW MT COUNTY flooding occurred along the Big May. MASSAC COUNTY BROOKPORT [3	04/20/13 15:00 CST 04/30/13 23:59 CST River near Grand Chain, affecting low-lemons in the company of the compa	ying fields, woods, NNE RISING SUI lying fields and wo BON [37.75, -89.3]	2K 0 and river access r [38.01, -88.03], 0 0 0 codlands occurred. 5], 1.4 WNW MT C. 0 0 0	Flood (due to Heavy Rain) Source: River/Stream Gage roads. The river continued rising into 5.5 NNW RISING SUN [38.01, -88.03] Flood (due to Heavy Rain) Source: River/Stream Gage The river continued above flood stage ARBON [37.76, -89.36], 2.2 WNW MT Flood (due to Heavy Rain) Source: River/Stream Gage
Minor flooding occurred along the Ohio early May. WHITE COUNTY MAUNIE [38.03, -8 Moderate flooding occurred along the Vinto early May. MACKSON COUNTY 2.6 WNW MT COUNTY 2.6 WNW MT COUNTY flooding occurred along the Big May. MASSAC COUNTY BROOKPORT [3	04/20/13 15:00 CST 04/30/13 23:59 CST River near Grand Chain, affecting low-letter for the second of the second o	ying fields, woods, NNE RISING SUP lying fields and wo BON [37.75, -89.3]	2K 0 and river access r [38.01, -88.03], 0 0 0 codlands occurred. 5], 1.4 WNW MT C. 0 0 s, and parks were f	Flood (due to Heavy Rain) Source: River/Stream Gage roads. The river continued rising into 5 NNW RISING SUN [38.01, -88.03] Flood (due to Heavy Rain) Source: River/Stream Gage The river continued above flood stage ARBON [37.76, -89.36], 2.2 WNW MT Flood (due to Heavy Rain) Source: River/Stream Gage dooded. The flooding continued into
Alinor flooding occurred along the Ohio arly May. WHITE COUNTY MAUNIE [38.03, -8) Moderate flooding occurred along the Value of the Ohio early May. ACKSON COUNTY 2.6 WNW MT COUNTY 2.6 WNW MT COUNTY 2.6 WNW MT COUNTY BROOKPORT [3]	04/20/13 15:00 CST 04/30/13 23:59 CST River near Grand Chain, affecting low-letter for the control of the cont	ying fields, woods, NNE RISING SUP lying fields and wo BON [37.75, -89.3]	2K 0 and river access r [38.01, -88.03], 0 0 0 codlands occurred. 5], 1.4 WNW MT C. 0 0 s, and parks were f	Flood (due to Heavy Rain) Source: River/Stream Gage roads. The river continued rising into 5 NNW RISING SUN [38.01, -88.03] Flood (due to Heavy Rain) Source: River/Stream Gage The river continued above flood stage ARBON [37.76, -89.36], 2.2 WNW MT Flood (due to Heavy Rain) Source: River/Stream Gage clooded. The flooding continued into ET [37.13, -88.68], 0.2 SW BROOKPORT Flood (due to Heavy Rain)
Alinor flooding occurred along the Ohio early May. WHITE COUNTY MAUNIE [38.03, -8 Moderate flooding occurred along the Vanto early May. CARSON COUNTY 2.6 WNW MT COUNTY 2.6 WNW MT COUNTY 2.6 WNW MT COUNTY BROOKPORT [37.76, -89.37]	04/20/13 15:00 CST 04/30/13 23:59 CST River near Grand Chain, affecting low-letter for the second of the second o	ying fields, woods, NNE RISING SUP lying fields and wo BON [37.75, -89.3]	2K 0 and river access r [38.01, -88.03], 0 0 0 codlands occurred. 5], 1.4 WNW MT C. 0 0 s, and parks were f	Flood (due to Heavy Rain) Source: River/Stream Gage roads. The river continued rising into 5 NNW RISING SUN [38.01, -88.03] Flood (due to Heavy Rain) Source: River/Stream Gage The river continued above flood stage ARBON [37.76, -89.36], 2.2 WNW MT Flood (due to Heavy Rain) Source: River/Stream Gage dooded. The flooding continued into
Minor flooding occurred along the Ohio early May. WHITE COUNTY MAUNIE [38.03, -8 Moderate flooding occurred along the Vinto early May. MACKSON COUNTY 2.6 WNW MT COUNTY flooding occurred along the Big Mearly May. MASSAC COUNTY BROOKPORT [337.12, -88.63]	04/20/13 15:00 CST 04/30/13 23:59 CST River near Grand Chain, affecting low-letter for the control of the cont	wing fields, woods, woo	2K 0 and river access r [38.01, -88.03], 0 0 0 codlands occurred. 5], 1.4 WNW MT C. 0 0 s, and parks were f	Flood (due to Heavy Rain) Source: River/Stream Gage roads. The river continued rising into 5 NNW RISING SUN [38.01, -88.03] Flood (due to Heavy Rain) Source: River/Stream Gage The river continued above flood stage ARBON [37.76, -89.36], 2.2 WNW MT Flood (due to Heavy Rain) Source: River/Stream Gage RIOODED. The flooding continued into RT [37.13, -88.68], 0.2 SW BROOKPORT Flood (due to Heavy Rain) Source: River/Stream Gage
Minor flooding occurred along the Ohio early May. WHITE COUNTY MAUNIE [38.03, -8 Moderate flooding occurred along the Vinto early May. JACKSON COUNTY 2.6 WNW MT COUNTY flooding occurred along the Big Mearly May. WASSAC COUNTY BROOKPORT [37.12, -88.63] Winor flooding occurred along the Ohio May.	04/20/13 15:00 CST 04/30/13 23:59 CST River near Grand Chain, affecting low-letter for the control of the cont	ying fields, woods, in NNE RISING SUP-lying fields and woods, and supplied to the supplied to	2K 0 and river access r [38.01, -88.03], 0 0 0 codlands occurred. 5], 1.4 WNW MT C 0 0 s, and parks were f WNW BROOKPOR 0 0 d river access poir	Flood (due to Heavy Rain) Source: River/Stream Gage roads. The river continued rising into 5 NNW RISING SUN [38.01, -88.03] Flood (due to Heavy Rain) Source: River/Stream Gage The river continued above flood stage ARBON [37.76, -89.36], 2.2 WNW MT Flood (due to Heavy Rain) Source: River/Stream Gage flooded. The flooding continued into AT [37.13, -88.68], 0.2 SW BROOKPORT Flood (due to Heavy Rain) Source: River/Stream Gage and the flooding continued into The flood (due to Heavy Rain) Source: River/Stream Gage and the flooding into early 188.20], 1.4 SE CARMI [38.06, -88.15]
Minor flooding occurred along the Ohio early May. WHITE COUNTY MAUNIE [38.03, -8 Moderate flooding occurred along the Vinto early May. JACKSON COUNTY 2.6 WNW MT COUNTY flooding occurred along the Big Mearly May. WASSAC COUNTY BROOKPORT [37.12, -88.63] Winor flooding occurred along the Ohio May.	04/20/13 15:00 CST 04/30/13 23:59 CST River near Grand Chain, affecting low-letter for the control of the cont	ying fields, woods, in NNE RISING SUP-lying fields and woods, and supplied to the supplied to	2K 0 and river access r [38.01, -88.03], 0 0 0 codlands occurred. [5], 1.4 WNW MT C. 0 0 s, and parks were f WNW BROOKPOR 0 0 d river access poin	Flood (due to Heavy Rain) Source: River/Stream Gage roads. The river continued rising into 5 NNW RISING SUN [38.01, -88.03] Flood (due to Heavy Rain) Source: River/Stream Gage The river continued above flood stage ARBON [37.76, -89.36], 2.2 WNW MT Flood (due to Heavy Rain) Source: River/Stream Gage clooded. The flooding continued into ET [37.13, -88.68], 0.2 SW BROOKPORT Flood (due to Heavy Rain) Source: River/Stream Gage and the river continued rising into early

A couple of rounds of heavy rain in the Mississippi River Valley combined with melting snows from up north caused rises along the Mississippi River leading to major flooding. Backwater from the Mississippi River caused the Big Muddy River to rise above flood stage.

Page 3 of 10 Printed on: 06/07/2013

Location Date/Time Deaths & Property & Event Type and Details

Injuries Crop Dmg

Other rounds of heavy rain fell in the Wabash and Ohio Valleys, causing minor flooding along the Wabash, Ohio, and many of their tributaries. April was one of the wettest months ever for the state of Indiana.

(IL-Z075) JEFFERSON, (IL-Z076) WAYNE, (IL-Z077) EDWARDS, (IL-Z078) WABASH, (IL-Z080) PERRY, (IL-Z081) FRANKLIN, (IL-Z082) HAMILTON, (IL-Z083) WHITE, (IL-Z084) JACKSON, (IL-Z085) WILLIAMSON, (IL-Z086) SALINE, (IL-Z087) GALLATIN, (IL-Z088) UNION, (IL-Z089) JOHNSON, (IL-Z090) POPE, (IL-Z091) HARDIN, (IL-Z092) ALEXANDER, (IL-Z093) PULASKI, (IL-Z094) MASSAC

04/20/13 01:00 CST 0 Frost/Freeze

04/20/13 07:00 CST 0

Areas of frost and freezing temperatures occurred underneath a surface high pressure ridge that extended from the Great Lakes region south across the Lower Ohio Valley. Most crops had not yet been planted due to excessively wet soil and cool temperatures. However, some frost or freeze damage likely occurred to unprotected potted plants and nursery stock. Low temperatures ranged from 30 to 36 degrees across southern Illinois.

(IL-Z076) WAYNE, (IL-Z077) EDWARDS, (IL-Z078) WABASH, (IL-Z081) FRANKLIN, (IL-Z082) HAMILTON, (IL-Z083) WHITE, (IL-Z084) JACKSON, (IL-Z085) WILLIAMSON, (IL-Z086) SALINE, (IL-Z087) GALLATIN, (IL-Z088) UNION, (IL-Z089) JOHNSON, (IL-Z090) POPE, (IL-Z091) HARDIN, (IL-Z092) ALEXANDER, (IL-Z093) PULASKI, (IL-Z094) MASSAC

04/25/13 02:00 CST 0 Frost/Freeze

04/25/13 06:00 CST 0

Areas of frost occurred underneath a surface high pressure ridge that extended from the southern Plains northeast to the Lower Ohio Valley. Most crops had not yet been planted due to excessively wet soil and cool temperatures. However, some frost damage likely occurred to unprotected potted plants and nursery stock. Low temperatures ranged from 32 to 36 degrees across most of southern Illinois. Warmer readings were observed in the Mount Vernon area and points west.

(IL-Z075) JEFFERSON, (IL-Z076) WAYNE, (IL-Z077) EDWARDS, (IL-Z078) WABASH, (IL-Z080) PERRY, (IL-Z081) FRANKLIN, (IL-Z082) HAMILTON, (IL-Z083) WHITE, (IL-Z084) JACKSON, (IL-Z085) WILLIAMSON, (IL-Z086) SALINE, (IL-Z087) GALLATIN, (IL-Z088) UNION, (IL-Z089) JOHNSON, (IL-Z090) POPE, (IL-Z091) HARDIN, (IL-Z092) ALEXANDER, (IL-Z093) PULASKI, (IL-Z094) MASSAC

04/29/13 01:00 CST 0 Dense Fog

04/29/13 07:00 CST 0

Areas of dense fog formed due to the combination of clearing skies and light winds near a surface high over the Tennessee Valley. Due to recent rains, there was plenty of moisture at ground level. Visibility was occasionally one-quarter mile or less across southern Illinois.

INDIANA, Southwest

GIBSON COUNTY	JOHNSON I	[38 28 ₋ 87 75]	OWENSVILLE	38 27 -87 681
CIDSCIA COUNTI	3011113011	[30.20, -01.13]	, OVVLING VILLE [30.27, -07.00]

04/16/13 18:20 CST 0 Hail (1.00 in)

04/16/13 18:23 CST 0 Source: Trained Spotter

Quarter size hail was reported in Johnson and Owensville.

GIBSON COUNTY --- 0.5 S PRINCETON [38.34, -87.57], PRINCETON [38.35, -87.57]

04/16/13 18:40 CST 0 Hail (1.00 in)

04/16/13 18:42 CST 0 Source: Trained Spotter

Quarter size hail was reported on the south side of town. In the downtown area, penny size hail was reported.

Scattered thunderstorms developed along and ahead of a cold front approaching the Ohio River. The activity was fostered by upper-level diffluence overlying a relatively warm moist boundary layer in the presence of 35 to 40 knots of west-southwesterly 700 mb flow. Isolated storms produced large hail.

PIKE COUNTY --- PETERSBURG [38.50, -87.28], 1.3 WNW PETERSBURG [38.51, -87.30], 3.8 NE PETERSBURG [38.54, -87.23], 4.7 NE PETERSBURG [38.54, -87.21]

 04/19/13 05:00 EST
 10K
 Flood (due to Heavy Rain)

 04/30/13 23:59 EST
 0
 Source: River/Stream Gage

Moderate flooding occurred along the White River around Petersburg. Extensive flooding was in progress, with several bottomland roads flooded in Pike County. Some of these roads were under several feet of water. Flooded roads east of State Route 57 included County Roads 750N, 600N, and 1000E. Pike County roads flooded west of State Route 57 included 250W, 400W, 675N, 700N, 1000W, 900W, 700W, and 775W. Several small oil fields were inaccessible. High water isolated some river cabin residents. The flooding continued into early May.

Page 4 of 10 Printed on: 06/07/2013

Storm Data and Unusual Weather Phenomena - April 2013 Date/Time Deaths & **Event Type and Details** Location Property & Injuries Crop Dmg GIBSON COUNTY --- 0.9 NNW HAZLETON [38.49, -87.54], 1.7 NNE HAZLETON [38.50, -87.52], 1.5 WSW GIRO [38.49, -87.50], 1.3 ENE HAZLETON [38.49, -87.51], 2.5 WNW PATOKA [38.43, -87.63], 3.9 ENE EAST MT CARMEL [38.43, -87.67] 10K 04/19/13 11:00 CST Flood (due to Heavy Rain) 04/30/13 23:59 CST 0 Source: River/Stream Gage Moderate flooding occurred along the White River in the Hazleton area. Numerous county roads were flooded. There was extensive flooding of lowlands across northern Gibson County. Some river cabin residents evacuated. Most local roads were flooded. Several oil fields were inaccessible. A six-inch water pump was installed in Hazleton to keep water off the streets. Flood gates were installed at Hazleton. The flooding continued into early May. GIBSON COUNTY --- 1.6 WSW EAST MT CARMEL [38.39, -87.76], 1.0 NW EAST MT CARMEL [38.41, -87.74], 1.9 NE EAST MT CARMEL [38.42, -87.70], 2.4 S EAST MT CARMEL [38.37, -87.74], 1.9 SSW CAROL [38.30, -87.78], 2.7 N CRAWLEYVILLE [38.32, -87.83] 04/20/13 00:00 CST 20K Flood (due to Heavy Rain) 04/30/13 23:59 CST 0 Source: River/Stream Gage Moderate flooding occurred along the Wabash River around East Mt. Carmel. The crest of 30.24 feet on April 28 was the 13th highest crest in records dating back to the late 1800's. Extensive flooding took place in East Mt. Carmel, Indiana and western Gibson County. The road through East Mount Carmel was impassable. Most structures in this area are elevated 2 to 3 feet above the flood crest recorded during this flood. However, some evacuations were needed. Vehicles were moved to higher ground. Numerous county roads were closed by flooding. The flooding continued into early May. POSEY COUNTY --- 0.5 WNW NEW HARMONY [38.13, -87.94], 1.0 NNE NEW HARMONY [38.14, -87.92], 0.9 NE NEW HARMONY [38.14, -87.92], 1.8 S NEW HARMONY [38.10, -87.93], 2.0 SW NEW HARMONY [38.11, -87.95] 04/21/13 14:00 CST 10K Flood (due to Heavy Rain) 04/30/13 23:59 CST 0 Source: River/Stream Gage Moderate flooding occurred along the Wabash River. Low-lying fields and woodlands were underwater. Parts of northern New Harmony began to flood, and sandbagging became necessary in town. Harmonie State Park was closed. The river continued above flood stage into early May. Record rainfall occurred in west central and north central sections of Indiana, causing moderate flooding along the Wabash and White Rivers. (IN-Z081) GIBSON, (IN-Z082) PIKE, (IN-Z085) POSEY, (IN-Z086) VANDERBURGH, (IN-Z087) WARRICK, (IN-Z088) SPENCER 04/20/13 02:00 CST 0 Frost/Freeze 04/20/13 07:00 CST 0 Areas of frost occurred underneath a surface high pressure ridge that extended from the Great Lakes region south across the Lower Ohio Valley. Most crops had not yet been planted due to excessively wet soil and cool temperatures. However, some frost damage likely occurred to unprotected potted plants and nursery stock. Low temperatures ranged from 33 to 38 degrees across southwest Indiana. (IN-Z081) GIBSON, (IN-Z082) PIKE, (IN-Z085) POSEY, (IN-Z086) VANDERBURGH, (IN-Z087) WARRICK, (IN-Z088) SPENCER 04/25/13 02:00 CST 0 Frost/Freeze n 04/25/13 06:00 CST Areas of frost occurred underneath a surface high pressure ridge that extended from the southern Plains northeast to the Lower Ohio

Areas of frost occurred underneath a surface high pressure ridge that extended from the southern Plains northeast to the Lower Ohio Valley. Most crops had not yet been planted due to excessively wet soil and cool temperatures. However, some frost damage likely occurred to unprotected potted plants and nursery stock. Low temperatures were in the mid 30's across southwest Indiana.

KENTUCKY, Southwest

CALLOWAY COUNTY --- MURRAY [36.62, -88.32]

04/11/13 09:00 CST 0 Heavy Rain

04/11/13 12:00 CST 0 Source: Emergency Manager

Minor flooding problems were observed in the Murray area. Standing water was over many roads, causing traffic hazards. The Kentucky mesonet site at Murray measured a daily rainfall total of 2.98 inches.

Locally heavy rain occurred ahead of a cold front that extended from central Illinois southward across western Tennessee.

MCCRACKEN COUNTY --- 0.5 S PADUCAH [37.07, -88.63]

Page 5 of 10 Printed on: 06/07/2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	04/16/13 15:36 CST		0	Hail (0.75 in)
	04/16/13 15:36 CST		0	Source: Trained Spotter
Dime size hail was reported on the south	n end of town.			
HENDERSON COUNTY HENDERSON				
	04/16/13 16:10 CST		0	Hail (0.88 in)
	04/16/13 16:10 CST		0	Source: Trained Spotter
HENDERSON COUNTY HENDERSON	N [37.83, -87.58], 0.5 E HENDERSON	37.83, -87.57]		
	04/16/13 16:16 CST	· · · · -	0	Hail (1.00 in)
	04/16/13 16:17 CST		0	Source: Emergency Manager
Quarter size hail was reported in the city	. Dime size hail was reported on the ea	ast side of town.		
HENDERSON COUNTY SPOTTSVILI	E [37.8587.42]			
	04/16/13 16:29 CST		0	Hail (1.00 in)
	04/16/13 16:29 CST		0	Source: Trained Spotter
Dime and quarter size hail was reported	falling in the community.			
HENDERSON COUNTY 3.2 NNE COP	RAVILLE [37 77 -87 44]			
- 0.2 MIL 001	04/16/13 16:33 CST		0	Hail (1.00 in)
	04/16/13 16:33 CST		0	Source: Trained Spotter
Quarter size hail was reported on the Au	dubon Parkway eight miles east of He	nderson.		
WEBSTER COUNTY DIXON [37.52, -	87.70]			
	04/16/13 17:31 CST		0	Hail (0.75 in)
	04/16/13 17:31 CST		0	Source: Trained Spotter
CHRISTIAN COUNTY HOPKINSVILL	E [36.85, -87.48]			
	04/16/13 19:50 CST		0	Hail (0.75 in)
	04/16/13 19:50 CST		0	Source: Trained Spotter
Dime size hail was reported along the by	/pass.			
CUDICTIAN COUNTY LICEVINO "	F [36 85 -87 48]			
CHRISTIAN COUNTY HUPKINSVILL	= [00.00, 01.40]			
CHRISTIAN COUNTY HUPKINSVILL	04/16/13 20:04 CST		0	Hail (1.00 in)
CHRISTIAN COUNTY HOPKINSVILL	• •		0 0	Hail (1.00 in) Source: Trained Spotter
	04/16/13 20:04 CST 04/16/13 20:09 CST			
Quarter size hail was reported in the dov Scattered thunderstorms developed ald diffluence overlying a relatively warm i	04/16/13 20:04 CST 04/16/13 20:09 CST vntown area. ong and ahead of a cold front approa	_	0 ver. The activity w	Source: Trained Spotter
Quarter size hail was reported in the dov Scattered thunderstorms developed al diffluence overlying a relatively warm i of the storms produced large hail.	04/16/13 20:04 CST 04/16/13 20:09 CST vntown area. ong and ahead of a cold front approamoist boundary layer in the presence	of 35 to 40 knots	0 ver. The activity w	Source: Trained Spotter
Quarter size hail was reported in the dov Scattered thunderstorms developed al diffluence overlying a relatively warm i of the storms produced large hail.	04/16/13 20:04 CST 04/16/13 20:09 CST vntown area. ong and ahead of a cold front approamoist boundary layer in the presence	of 35 to 40 knots	0 ver. The activity w	Source: Trained Spotter
Quarter size hail was reported in the dov Scattered thunderstorms developed al diffluence overlying a relatively warm i of the storms produced large hail.	04/16/13 20:04 CST 04/16/13 20:09 CST vntown area. ong and ahead of a cold front approamoist boundary layer in the presence	of 35 to 40 knots	0 ver. The activity w of west-southwes	Source: Trained Spotter ras fostered by upper-level terly 700 mb flow. A few
Quarter size hail was reported in the down scattered thunderstorms developed all diffluence overlying a relatively warm toof the storms produced large hail. GRAVES COUNTY 4.0 ESE WATER of the weak tornado briefly touched down, down. Peak winds were estimated near of the storms produced by the storms of the storms produced large hail.	04/16/13 20:04 CST 04/16/13 20:09 CST vintown area. ong and ahead of a cold front approamoist boundary layer in the presence VLY [36.55, -88.73], 0.5 W PILOT OAK 04/18/13 19:24 CST 04/18/13 19:25 CST removing a few shingles from two hom	of 35 to 40 knots [36.55, -88.73]	0 ver. The activity w of west-southwes 10K 0	Source: Trained Spotter ras fostered by upper-level terly 700 mb flow. A few Tornado (EF0, L: 0.33 mi , W: 100 yd) Source: NWS Storm Survey
Quarter size hail was reported in the down, Scattered thunderstorms developed ald diffluence overlying a relatively warm of the storms produced large hail. GRAVES COUNTY 4.0 ESE WATER The weak tornado briefly touched down,	04/16/13 20:04 CST 04/16/13 20:09 CST vintown area. ong and ahead of a cold front approamoist boundary layer in the presence VLY [36.55, -88.73], 0.5 W PILOT OAK 04/18/13 19:24 CST 04/18/13 19:25 CST removing a few shingles from two hon 75 mph. The average path width was a	of 35 to 40 knots [36.55, -88.73] nes. One home habout 100 yards.	0 ver. The activity w of west-southwes 10K 0	Source: Trained Spotter ras fostered by upper-level terly 700 mb flow. A few Tornado (EF0, L: 0.33 mi , W: 100 yd) Source: NWS Storm Survey
Quarter size hail was reported in the down, down. Peak winds was reported to the down, and the down, down. Peak winds were estimated near	04/16/13 20:04 CST 04/16/13 20:09 CST vintown area. ong and ahead of a cold front approamoist boundary layer in the presence VLY [36.55, -88.73], 0.5 W PILOT OAK 04/18/13 19:24 CST 04/18/13 19:25 CST removing a few shingles from two hon 75 mph. The average path width was a	of 35 to 40 knots [36.55, -88.73] nes. One home habout 100 yards.	0 ver. The activity w of west-southwes 10K 0	Source: Trained Spotter ras fostered by upper-level terly 700 mb flow. A few Tornado (EF0, L: 0.33 mi , W: 100 yd) Source: NWS Storm Survey

Several large branches were blown down. The average damage path width was 100 yards and the peak winds were 75 mph.

CALLOWAY COUNTY --- 1.3 SW BACKUSBURG [36.69, -88.49]

Page 6 of 10 Printed on: 06/07/2013

ocation	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	04/18/13 19:50 CST		5K	Thunderstorm Wind (EG 52 kt)
	04/18/13 19:50 CST		0	Source: Trained Spotter
owned trees were reported along High	nway 1124 along the Graves County lin	e.		
RAVES COUNTY 4.3 S SYMSONIA	A [36.86, -88.52], 2.5 E KALER [36.87,	-88.49]		
	04/18/13 19:54 CST		35K	Tornado (EF0, L: 2.21 mi , W: 150 yd)
	04/18/13 19:57 CST		0	Source: NWS Storm Survey
	several homes. Several trees were sn ds were about 80 mph. The tornado mo	• •		
MARSHALL COUNTY 0.9 WNW OAI	K LEVEL [36.87, -88.49], 1.0 NNE OAK 04/18/13 19:57 CST	LEVEL [36.88, -88	=	Torondo (EEO L. 1.20 mi. W. 150 vd)
			8K	Tornado (EF0, L: 1.39 mi , W: 150 yd)
	04/18/13 19:59 CST		0	Source: NWS Storm Survey
	unty into Marshall County. There was saverage damage path width was 150 y	•	•	•••
MARSHALL COUNTY SHARPE [36.9	97, -88.45], CALVERT CITY [37.03, -88	3.35]		
	04/18/13 20:00 CST		4K	Thunderstorm Wind (EG 52 kt)
	04/18/13 20:00 CST		0	Source: Trained Spotter
imall, low-topped thunderstorm line s hese line segments produced a few s nesovortices embedded within the lin	segments moved northeast in a regio short-track, weak tornadoes and isola ne. There was little if any lightning as:	n of strong vertica Ited wind damage. Sociated with the c	I wind shear and v	very weak instability. rmed from
imall, low-topped thunderstorm line schese line segments produced a few semesovortices embedded within the line old front that extended southward from the following of the following services of the fo	segments moved northeast in a regio short-track, weak tornadoes and isola ne. There was little if any lightning as om a low pressure center in northern AN, (KY-Z003) CARLISLE, (KY-Z004) I (KY-Z009) CALLOWAY, (KY-Z010) CR R, (KY-Z016) HOPKINS, (KY-Z017) CH	n of strong vertica sted wind damage. sociated with the o Illinois. BALLARD, (KY-Z0 ITTENDEN, (KY-Z0	I wind shear and variations for the tornadoes for convection. The state of the stat	very weak instability. rmed from orms occurred along a (KY-Z006) GRAVES, (KY-Z007) 12) TRIGG, (KY-Z013) CALDWELL,
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Small, low-topped thunderstorm line some segments produced a few some sovertices embedded within the line cold front that extended southward from the southward from	segments moved northeast in a regio short-track, weak tornadoes and isolate. There was little if any lightning assom a low pressure center in northern AN, (KY-Z003) CARLISLE, (KY-Z004) I (KY-Z009) CALLOWAY, (KY-Z010) CR	n of strong vertica sted wind damage. sociated with the o Illinois. BALLARD, (KY-Z0 ITTENDEN, (KY-Z0	I wind shear and variations for the tornadoes for convection. The state of the stat	very weak instability. rmed from orms occurred along a (KY-Z006) GRAVES, (KY-Z007) 12) TRIGG, (KY-Z013) CALDWELL, KY-Z019) DAVIESS, (KY-Z020)
A couple of trees were blown down alor formall, low-topped thunderstorm line sometimes because the segments produced a few some sovortices embedded within the lincold front that extended southward from the sold front that extended the sold front	segments moved northeast in a regio short-track, weak tornadoes and isolate. There was little if any lightning assom a low pressure center in northern AN, (KY-Z003) CARLISLE, (KY-Z004) II (KY-Z009) CALLOWAY, (KY-Z010) CR (KY-Z016) HOPKINS, (KY-Z017) CF KY-Z022) TODD 04/20/13 01:00 CST 04/20/13 07:00 CST res occurred underneath a surface hi /alley. Most crops had not yet been pie likely occurred to unprotected potter	n of strong vertical ted wind damage. sociated with the collinois. BALLARD, (KY-Z0) ITTENDEN, (KY-Z0) IRISTIAN, (KY-Z01) gh pressure ridge anted due to exce	I wind shear and various for convection. The steed of the	very weak instability. rmed from orms occurred along a (KY-Z006) GRAVES, (KY-Z007) 12) TRIGG, (KY-Z013) CALDWELL, KY-Z019) DAVIESS, (KY-Z020) Frost/Freeze m the Great Lakes nd cool temperatures.
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mall, low-topped thunderstorm line shese line segments produced a few shese line segments of frost and freezing temperature and southward from the first and freezing temperature segments are soft frost and freezing temperature and south across the Lower Ohio Vowever, some frost or freeze damage to to 37 degrees across western Kent (Y-Z001) FULTON, (KY-Z002) HICKM, VINGSTON, (KY-Z008) MARSHALL, (Y-Z014) UNION, (KY-Z015) WEBSTE	segments moved northeast in a regio short-track, weak tornadoes and isolate. There was little if any lightning assom a low pressure center in northern AN, (KY-Z003) CARLISLE, (KY-Z004) I (KY-Z009) CALLOWAY, (KY-Z010) CR IR, (KY-Z016) HOPKINS, (KY-Z017) CF KY-Z022) TODD 04/20/13 01:00 CST 04/20/13 07:00 CST res occurred underneath a surface hit falley. Most crops had not yet been ple likely occurred to unprotected potter sucky. AN, (KY-Z003) CARLISLE, (KY-Z004) I (KY-Z009) CALLOWAY, (KY-Z010) CR IR, (KY-Z016) HOPKINS, (KY-Z017) CF	n of strong vertical ted wind damage. Sociated with the collinois. BALLARD, (KY-Z01 ITTENDEN, (KY-Z01 ITTENDEN, (KY-Z01 ITTENDEN, IT	I wind shear and with the tornadoes for convection. The street of the st	very weak instability. rmed from orms occurred along a (KY-Z006) GRAVES, (KY-Z007) 12) TRIGG, (KY-Z013) CALDWELL, KY-Z019) DAVIESS, (KY-Z020) Frost/Freeze m the Great Lakes and cool temperatures. imperatures ranged from (KY-Z006) GRAVES, (KY-Z007) 12) TRIGG, (KY-Z013) CALDWELL,
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Small, low-topped thunderstorm line some segments produced a few some sovertices embedded within the line cold front that extended southward from that extended southward from that extended southward from that extended southward from the cold front that extended the cold fron	segments moved northeast in a regio short-track, weak tornadoes and isolate. There was little if any lightning assom a low pressure center in northern AN, (KY-Z003) CARLISLE, (KY-Z004) I (KY-Z009) CALLOWAY, (KY-Z010) CR IR, (KY-Z016) HOPKINS, (KY-Z017) CF KY-Z022) TODD 04/20/13 01:00 CST 04/20/13 07:00 CST res occurred underneath a surface hi /alley. Most crops had not yet been ple likely occurred to unprotected potte sucky. AN, (KY-Z003) CARLISLE, (KY-Z004) II (KY-Z009) CALLOWAY, (KY-Z010) CR IR, (KY-Z016) HOPKINS, (KY-Z017) CF KY-Z022) TODD 04/25/13 00:00 CST 04/25/13 07:00 CST res occurred underneath a surface hi lost crops had not yet been planted dicurred to unprotected potted plants a	n of strong vertical ted wind damage. Sociated with the collinois. BALLARD, (KY-Z01 ITTENDEN, (KY-Z01 IRISTIAN, (KY-Z01 ITTENDEN, (KY-Z01 ITTENDEN, (KY-Z01 ITTENDEN, (KY-Z01 ITTENDEN, (KY-Z01 ITTENDEN, (KY-Z01 IRISTIAN, IRIST	I wind shear and with the tornadoes for convection. The street of the st	very weak instability. rmed from orms occurred along a (KY-Z006) GRAVES, (KY-Z007) 12) TRIGG, (KY-Z013) CALDWELL, KY-Z019) DAVIESS, (KY-Z020) Frost/Freeze In the Great Lakes and cool temperatures. Imperatures ranged from (KY-Z006) GRAVES, (KY-Z007) 12) TRIGG, (KY-Z013) CALDWELL, KY-Z019) DAVIESS, (KY-Z020) Frost/Freeze In the southern Plains Imperatures. However, In the so

Kentucky Highway 1828 was closed due to flooding. A trained spotter in the area measured 1.40 inches of rain in about 24 hours.

04/27/13 17:31 CST 04/27/13 23:00 CST

CALLOWAY COUNTY --- ALMO [36.70, -88.27], 1.0 W TAYLORS STORE [36.53, -88.44], 4.7 S HAMLIN [36.53, -88.07], 2.4 E FAXON [36.68, -88.11]

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Page 7 of 10 Printed on: 06/07/2013

Flash Flood (due to Heavy Rain)

Source: Law Enforcement

Location Date/Time Deaths & **Event Type and Details** Property & Injuries Crop Dma Several county roads were closed by flooding. Water was over numerous other roadways. Highway 121 just south of New Concord was flooded and dangerous. Radar estimated that 3 to 5 inches of rain fell during the previous 24 hours. TODD COUNTY --- 1.5 W HERMAN [36.73, -87.20], 1.3 SE HERMAN [36.72, -87.15], 1.1 ESE GUTHRIE [36.64, -87.15], 1.8 W GUTHRIE [36.65, -87.20], 2.1 **ENE SOUTH ZION [36.69, -87.25]** 04/27/13 18:47 CST 40K Flash Flood (due to Heavy Rain) 04/27/13 23:00 CST 0 Source: Trained Spotter Flash flooding occurred in the downtown area of Guthrie. Streets in Guthrie were closed due to high water on them. Some of the streets were not known to flood in the past. Basements of several homes and a couple of businesses were flooded. Water up to 8 inches deep was reported over a 500-yard stretch of U.S. Highway 41 between Trenton and Guthrie. Highway 181 in southern Todd County had up to a foot of water over it in some spots. Up to a foot of water was reported over a couple of other roads. Radar estimated that 3 to 5 inches of rain had fallen over southern Todd County in 24 hours. MARSHALL COUNTY --- HARDIN [36.77, -88.30] 04/27/13 21:28 CST 0 Heavy Rain 04/27/13 21:28 CST 0 Source: Trained Spotter The 36-hour rainfall total was 4.25 inches. Along and north of a slow-moving warm front over western Tennessee, clusters of moderate to heavy rain occurred. These clusters moved eastward across southern Kentucky, where the ground was saturated. Southwest low-level flow on the order of 20 to 30 knots overran the surface warm front. The air mass south of the warm front was characterized by precipitable water values of 1.2 to 1.5 inches. The persistent nature of the very moist southwest flow overrunning the warm front resulted in very heavy convective rainfall along the Tennessee border, mainly from Murray eastward. MUHLENBERG COUNTY --- PARADISE [37.27, -86.98], 0.8 SSE PARADISE [37.26, -86.97], 0.8 S PARADISE [37.26, -86.98], 0.6 NW PARADISE [37.28, -86.991 04/29/13 07:00 CST 0 Flood (due to Heavy Rain) 04/30/13 23:59 CST 0 Source: River/Stream Gage Minor flooding occurred along the Green River at Paradise. Some low-lying fields and woodlands were underwater. The river continued rising into early May. A couple rounds of heavy rain fell in western and central Kentucky late in the month, causing minor flooding along the Green River. MISSOURI, Southeast RIPLEY COUNTY --- 2.0 WNW PAYNOR [36.53, -90.95], 1.1 ENE PAYNOR [36.53, -90.90] 04/10/13 19:06 CST 0.35M Thunderstorm Wind (EG 87 kt) 04/10/13 19:08 CST 0 Source: NWS Storm Survey Approximately 200 trees were blown down. One barn was destroyed, with debris blown into trees. Four vehicles and a tractor that were in the barn were damaged. A home sustained shingle damage and other minor damage. One calf was killed and another injured. The damage was caused by a microburst with peak winds near 100 mph. The damage swath was one-half mile wide by 1 and 3/4 miles long. RIPLEY COUNTY --- 2.0 NNW PULASKI [36.65, -90.76] 04/10/13 19:24 CST 5K Thunderstorm Wind (EG 52 kt) 04/10/13 19:24 CST 0 Source: Trained Spotter Several tree branches were blown down along U.S. Highway 160 east of Doniphan. BUTLER COUNTY --- POPLAR BLUFF [36.75, -90.40] 04/10/13 19:53 CST n Thunderstorm Wind (EG 52 kt) 04/10/13 19:53 CST 0 Source: Emergency Manager

Emergency management personnel estimated the wind gusted near 60 mph.

BUTLER COUNTY --- 6.0 SE POPLAR BLUFF [36.69, -90.32], 3.0 W BATESVILLE [36.71, -90.30]

04/10/13 19:58 CST

04/10/13 20:00 CST

Page 8 of 10 Printed on: 06/07/2013

Tornado (EF0, L: 1.73 mi, W: 75 yd)

Source: NWS Storm Survey

20K

0

Location Date/Time Deaths & Property & Event Type and Details

Injuries Crop Dmg

The roofs and some walls of two sheds/barns were removed and blown several hundred yards. The rafters were also removed. The average damage path width was 50 yards. Peak winds were estimated near 85 mph.

BUTLER COUNTY --- 3.0 WSW BATESVILLE [36.68, -90.30], 6.0 E POPLAR BLUFF [36.75, -90.29]

04/10/13 19:59 CST 25K Thunderstorm Wind (EG 65 kt)
04/10/13 20:02 CST 0 Source: NWS Storm Survey

Straight-line wind damage occurred just east of the path of a weak tornado. A small trailer was overturned, roofing was blown off a shed, and shingles were blown off a home.

STODDARD COUNTY --- 5.1 W DUDLEY [36.79, -90.19], 2.0 NNE PUXICO [36.98, -90.17]

Scattered damage consisted of uprooted trees and broken tree limbs. Dozens of homes sustained loss of shingles or other minor damage. A barn was levelled. Numerous sheds were damaged or destroyed. A business in Puxico lost its roof. Windows were blown out, and a tree was snapped in half in Puxico. The damage path width was four miles. Peak winds were estimated near 80 mph.

STODDARD COUNTY --- 2.0 NW DUDLEY [36.80, -90.13], 2.0 N DUDLEY [36.81, -90.10]

04/10/13 20:05 CST 40K Tornado (EF0, L: 1.53 mi , W: 50 yd) 04/10/13 20:07 CST 0 Source: NWS Storm Survey

The tornado removed metal roofing and damaged rafters of at least four chicken houses. The debris was carried up to a mile or more. The average damage path width was about 40 yards. Peak winds were approximately 75 mph.

BOLLINGER COUNTY --- ZALMA [37.15, -90.08], 2.0 NE ZALMA [37.17, -90.05]

04/10/13 20:25 CST 50K Thunderstorm Wind (EG 70 kt) 04/10/13 20:28 CST 0 Source: NWS Storm Survey

Trees were uprooted, and tree limbs were broken. Homes lost shingles. Barns and sheds were damaged. A large tree was uprooted on Highway 51 about a mile north of Zalma.

Surface heating during the day destabilized the atmosphere, contributing to moderate instability in the warm sector of a surface cyclone. Thunderstorms developed as the cap weakened. Increasing vertical wind shear, moderate instability, and boundary layer dew points in the mid 60's resulted in a squall line with embedded bowing segments and isolated tornadoes. A few swaths of significant wind damage and a couple of weak tornadoes were reported.

CARTER COUNTY --- ELLSINORE [36.93, -90.75]

04/16/13 16:13 CST 0 Hail (0.75 in)

04/16/13 16:13 CST 0 Source: Trained Spotter

Scattered thunderstorms developed along and ahead of a cold front approaching the Ozark Mountain foothills. The activity was fostered by upper-level diffluence overlying a relatively warm moist boundary layer in the presence of 35 to 40 knots of west-southwesterly 700 mb flow.

(MO-Z087) CAPE GIRARDEAU, (MO-Z111) SCOTT

04/18/13 08:00 CST 2K Strong Wind (MAX 40 kt)

04/18/13 14:00 CST 0

During the mid-morning hours, strong southerly winds developed ahead of a cold front that extended southward from a low pressure center in northern Illinois. The strongest winds were in the Mississippi River counties. A wind gust to 46 mph was measured at the Cape Girardeau airport. The winds decreased late in the afternoon following the passage of thunderstorms.

CAPE GIRARDEAU COUNTY --- 1.4 SSE CAPE GIRARDEAU [37.28, -89.52], 1.0 NNE DUTCHTOWN [37.26, -89.66], 0.6 NE BLOMEYER [37.24, -89.66], 1.4 ESE GULF JCT [37.26, -89.53]

04/19/13 09:00 CST 50K Flood (due to Heavy Rain) 04/30/13 23:59 CST 0 Source: River/Stream Gage

Major flooding occurred along the Mississippi River in the Cape Girardeau area. The river crested at Cape Girardeau very near 42 feet, which is the threshold for major flooding. Many homes in the Cape Girardeau area were affected, and evacuations were required. Over 100,000 acres were flooded. Numerous roads were closed. Most of the affected houses were in rural areas of Cape Girardeau County along tributary creeks that were swollen by Mississippi River backwater. The city of Cape Girardeau is protected by floodwalls and levees. The community of Dutchtown, located along a diversion channel, was threatened by backwater flooding. Volunteers at a staging area filled about 7,000 sandbags to construct a temporary levee on Highway 74 to protect Dutchtown. Dutchtown was flooded severely in the historic flood of 2011. The Mississippi River flooding continued into early May.

Page 9 of 10 Printed on: 06/07/2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
SCOTT COUNTY COMMERCE [37	.15, -89.45], 0.8 ENE COMMERCE [37.15	5, -89.44], 4.0 ESE	WASATCH [37.10	, -89.41], 2.7 SE WASATCH [37.11,
-03.43]	04/19/13 18:00 CST		20K	Flood (due to Heavy Rain)
	04/30/13 23:59 CST		0	Source: River/Stream Gage
Major flooding occurred along the Miscontinued into May.	sissippi River. There was extensive flood	ling of low-lying fie	lds, and many coul	nty roads were closed. The flooding
-	36.58, -89.23], 1.9 WSW DORENA [36.57	, -89.26], 3.6 WNW	/ DORENA [36.60,	-89.29], 3.3 WNW DORENA [36.60,
89.28]	04/22/13 08:00 CST		0	Flood (due to Heavy Rain)
	04/30/13 23:59 CST		0	Source: Department of Highways
orena-Hickman Ferry was closed du dissouri Route A and Route 77 near I	along the Mississippi River. There was ex the to high water over the landing at Hickm Dorena, Missouri. The flooding continued	nan, Kentucky. The I into May.	e ferry connects Hig	ghway 1354 at Hickman, Kentucky with
NEW MADRID COUNTY 1.9 SSE N MADRID [36.58, -89.51]	NEW MADRID [36.57, -89.52], 3.8 SE NEV	W MADRID [36.57,	-89.48], 3.5 ESE N	NEW MADRID [36.59, -89.47], 1.6 SE NEW
11/12/11/2 [00:00; 00:01]	04/24/13 09:00 CST		0	Flood (due to Heavy Rain)
	04/20/12 22:E0 CCT		0	Source: River/Stream Gage
A couple of rounds of heavy rain in the discissippi River, leading to major f	04/30/13 23:59 CST d stage in the New Madrid area. Bottomla the Mississippi River Valley combined v flooding. The Governor of Missouri declard and the U.S. Army Corps of Enginee	with melting snow ared a state of em	oded. The river con is from up north ca aergency in respon	aused rises along the nse to the flooding,
A couple of rounds of heavy rain in the Mississippi River, leading to major fluctivating the Missouri National Gua ow water levels threatened to shut of MO-Z076) PERRY, (MO-Z086) BOLL	d stage in the New Madrid area. Bottomla the Mississippi River Valley combined v looding. The Governor of Missouri decl	with melting snow lared a state of em ers. The rise in rive n the year. (MO-Z100) WAYN	oded. The river construction of the river co	aused rising into early May. aused rises along the nse to the flooding, ecially dramatic considering
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Page 10 of 10

06/07/2013

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Areas of dense fog formed due to the combination of clearing skies and light winds near a surface high over the Tennessee Valley. Due to recent rains, there was plenty of moisture at ground level. Visibility was occasionally one-quarter mile or less across southeast

Missouri.